

AD-A204 571

DATE 2-14-89

TO: Information Services Branch

FROM: Computer Products Support Group

(Init)

(Init)

(Init)

RE: DOD/SW/DK-89/009. Announce in GRA&I
(Report No.)

Priority Action is Required

Attached

- ☒ Form NTIS 231.
- ☒ Form NTIS FCPC 01
- ☒ NTIS 79
- ☒ RDP (OF 272)
- ☐ Proof Listing
- ☐ Consigned Inventory Acquisition Form (Interagency Agreement Number and Split)

Process for:

K File
(Data)

☐ Documentation

☐ Diskette

H File
(Software)

☒ Documentation

☒ Diskette

Action

- ☐ Loan Document Form Attached
- ☒ Defense Sponsored: Acquire ADA Number
- ☐ Order Pending. Return immediately after copying necessary pages.

Remarks

DTIC
ELECTE
FEB 27 1989
DS

Accession For	
NTIS CRA&I	☒
DTIC TAB	☐
Unannounced	☐
Justification	
M.T. 50.10	
By NTIS	
Distribution	
Availability Codes	
Dist	Avail and/or Special
A-1.21	

DISTRIBUTION STATEMENT A

Approved for public release
Distribution Unlimited

Computer Products Transmittal

89 2 24 040

AD-A204 571

 NEW

CORRECTION

NTIS COMPUTER PRODUCTS CATALOG DATA SHEET		1. ACCESSION NO.	2. CONTRIBUTING AGENCY REPORT NO. DOD/SW/DK-89/009	3. SUBJECT																				
4. PRODUCT (circle one) DATA FILE PUBLICATION DATA BASE REFERENCE SERVICE SOFTWARE MODEL, SIMULATION																								
5. AGENCY, BUREAU, DIVISION, AND ADDRESS Department of Army The Hydrologic Engineering Center, Corps of Engineers 609 Second Street Davis, California 95616																								
6. PRODUCT NAME (Use agency nomenclature) HECWRC, Flood Flow Frequency Analysis Computer Program 723-X6-L7550																								
7. DESCRIPTORS OF PRODUCT (Keywords, identifiers, etc.) *Software, Statistical Hydrology Flood Flow Frequency Analysis Computer Program Diskette																								
8. DATES OF COVERAGE (For one-time reports, use as-of-date; for software, use date and release no.) Version May 87			9. FILE SIZE IN NO. OF: Diskettes <table border="1"><tr><td></td><td></td><td>1</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table> PUNCHED CARDS <table border="1"><tr><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></tr></table>				1																	
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10. AVAILABILITY STATEMENT - AGENCY NAME AND ADDRESS, ORDER NO., ETC. (If NTIS sells, leave blank)																								
11. PRICE INFORMATION Price includes documentation: Price code: D01 \$50.00																								
12. GEOGRAPHIC SCOPE No restrictions																								
13. TECHNICAL REPRESENTATIVES (List at least one for subject and one for media) <table border="1"><thead><tr><th>NAME</th><th>TITLE</th><th>PHONE NO.</th></tr></thead><tbody><tr><td>Harold Kubik</td><td>Research Hydraulic Engineer</td><td>(916) 551-1748</td></tr><tr><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td></tr></tbody></table>					NAME	TITLE	PHONE NO.	Harold Kubik	Research Hydraulic Engineer	(916) 551-1748														
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Harold Kubik	Research Hydraulic Engineer	(916) 551-1748																						
14. DOCUMENTATION ☒ AVAILABLE as:		EXPECTED AVAILABILITY DATE NA																						

(X)

NTIS COMPUTER PRODUCTS CATALOG DATA SHEET

15. COMPUTER PRODUCT ABSTRACT

HECWRC performs frequency computations of annual maximum flood peaks according to the Water Resources Council Guidelines for Determining Flood Flow Frequency, Bulletin 17B. ...Software description: The software is written in the FORTRAN programming language for implementation on IBM/PC or compatible machines using the MS DOS 2.1 or higher operating system. Minimum memory required is 256 K. Math coprocessor (8087/80287/80387) is highly recommended but not required. (KR) ←

16. DATA FILE TECHNICAL DESCRIPTION

The software is contained on 5¼-inch diskette(s), double density (360K), compatible with the IBM/PC microcomputer. The diskettes are in the ASCII format.

17. SOFTWARE TECHNICAL DESCRIPTION

Software is written in;

Fortran X COBOL _____ Basic _____ Assembly _____ Other (Specify) _____

Software requires;

CPR Mfr. IBM PC Model(s) _____ Operating system(s) MS/PC DOS 2.1+

Minimum of 256 K bytes core. The following special features and/or additional requirements in hardware:

One 5¼" floppy disk drive (360 KB or 1.2 MB). A 10 MB or larger hard disk is recommended. Math coprocessor (8087/80287/80387) is highly recommended but not required.

SIGNATURE OF AGENCY REPRESENTATIVE, PHONE NO., AND DATE

SIGNATURE OF NTIS REPRESENTATIVE AND DATE FORM PREPARED

COMPUTER DISKETTE FILE PROPERTIES

01. Completion Date <table border="1"> <tr> <th>Year</th> <th>Month</th> <th>Day</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>			Year	Month	Day				02. Long Title Flood Flow Frequency Analysis (for microcomputers)			03. Short Title		
Year	Month	Day												
04. Copying Date <table border="1"> <tr> <th>Year</th> <th>Month</th> <th>Day</th> </tr> <tr> <td></td> <td></td> <td></td> </tr> </table>			Year	Month	Day				05. Subscription ☐ Yes ☒ No		06. ☒ New File ☐ Replacement		07. Number of Diskettes 1	
Year	Month	Day												
08. Submitting Organization and Address Department of Army The Hydrologic Engineering Center Corps of Engineers 609 Second St. Davis, CA 95616					09. Technical Contact (s) and Phone Harold Kubik (916) 551-1748									
10. Host Computer/Model IBM PC			11. Memory Requirement 360 K		12. Language/Format FORTRAN/ASCII									
13. Diskette Size 3 1/2 5 1/4 Other ☐ ☒ ☐		14. Diskette Capacity ☒ 360K ☐ 720K ☐ 800K ☐ 1.2M ☐ 1.44M ☐ Other			15. Operating System/Version MS/PC DOS 2.1+									
16. Number of Files		17. Number of Records		18. Record Length										
19. Documentation ☐ on Diskette (File # _____) ☐ Paper Copy														
20. Supplemental Information														
21. For Submitting Organization Use														

INSTALLATION INSTRUCTIONS FOR MICROCOMPUTER VERSION OF HECWRC

This version of HECWRC (May 1987) will run on an IBM or compatible microcomputer that has the following:

- * 256 Kilobytes (KB) of Random Access Memory (RAM)
- * MS DOS 2.1 or greater
- * One 5 1/4 inch floppy diskette drive (360 KB or 1.2 MB)
- * A 10 Megabyte (or larger) hard disk is recommended
- * A math coprocessor (8087, 80287, or 80387) is highly recommended, but not required. The math coprocessor will greatly reduce the execution time of the program (increases computational speed by a factor of 5 to 10).

I. PROGRAM INSTALLATION

A. Contents of the HECWRC Diskette

The HECWRC computer program, example input data, and example output are provided on a 5 1/4 inch double-sided 360 KB floppy diskette as follows:

HECWRC DISKETTE: HECWRC.EXE
HECWRC.DAT
HECWRC.OUT
README.DOC

Explanation of Files Included on the HECWRC Package Diskette

HECWRC.EXE: The HECWRC program in an executable form.
HECWRC.DAT: HECWRC example input data.
HECWRC.OUT: example output file of example input data.
README.DOC: file containing this implementation guide.

B. Installation on a Hard Disk System

The following set of instructions will allow the user to run the HECWRC program from any of the user's data directories.

1. You will need to create three directories. One of the directories should be labeled \HECEXE. This directory will be used to store all of the HEC executable programs. A second directory should be labeled \HECEXE\SUP. This directory will be used to store all of the supplemental files required by the executable programs. A third directory should be created to store data files. This data directory can be given any name. As shown in Figure 1, you may want this data directory to represent a specific project, person, or program. For this example, let's assume that you are going to label the data directory \HECWRC. To accomplish these tasks do the following:

- * Go to the drive (e.g. C:) in which you would like to install the software.
- * Type MD\HECWRC then press the <ENTER> key.
- * Type MD\HECEXE then press the <ENTER> key.
- * Type MD\HECEXE\SUP then press the <ENTER> key.

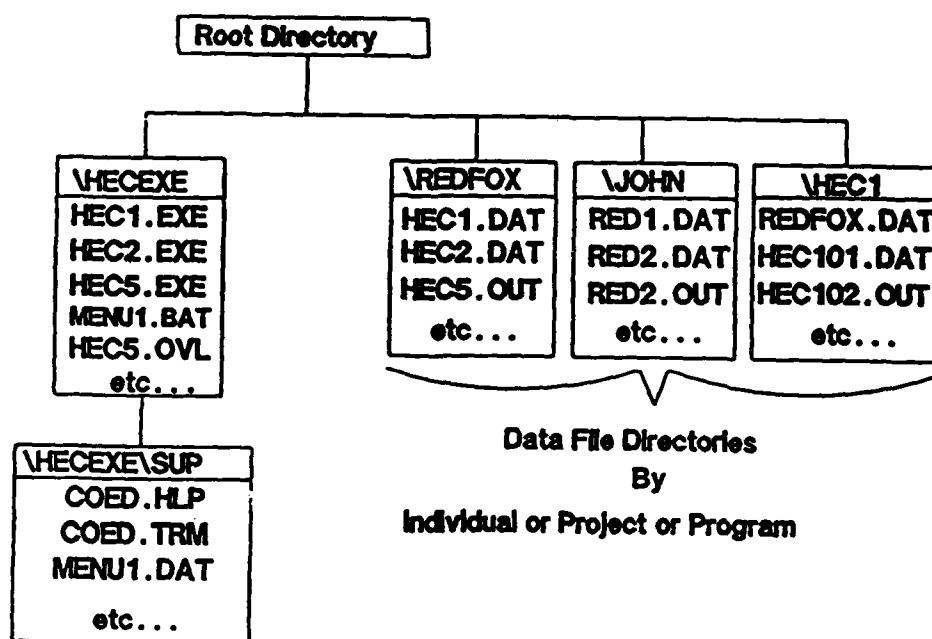


Figure 1. Recommended HEC Programs and Data Directories Configuration

2. Place the HECWRC diskette into the A drive.
3. The next step will be to copy the HECWRC input and output files. If you do not want these files copied to your hard disk, go to step 4. If you would like these files copied to your hard disk, do the following:
 - * Type **CD HECWRC** then press the <ENTER> key.
 - * Type **COPY A:*.DAT C:** then press the <ENTER> key.
 - * Type **COPY A:*.OUT C:** then press the <ENTER> key.
4. The next step will be to copy the HECWRC program. The file is named **HECWRC.EXE**. Use the following commands to do so:
 - * Type **CD \HECEXE** then press the <ENTER> key.
 - * Type **COPY A:*.EXE C:** then press the <ENTER> key.
 - * Type **CD ** then press the <ENTER> key.
5. To allow access of the executable programs from any directory, it will be necessary to edit the **AUTOEXEC.BAT** file to include a path to the **\HECEXE** directory. The **AUTOEXEC.BAT** file should be in your root (**C:**) directory. The following is an example **PATH** command that would allow access to the **\HECEXE** directory as well as the root (**C:**) directory:

PATH C:\;C:\HECEXE

You may want to include a path to other directories on your system. If so, just add the names of the directories to this command. For more information on the **PATH** command and the **AUTOEXEC.BAT** file, consult your DOS manual.

6. The final step will be to modify your **CONFIG.SYS** file. Many HEC programs require the capability to open more than eight (8) files at any one time. Because eight is the system default, you will need to modify your **CONFIG.SYS** file to include the following two lines:

**FILES=20
BUFFERS=20**

For more information concerning the **CONFIG.SYS** file, consult your DOS manual.

C. Installation on a Two-Floppy-Diskette System

There is no installation for a two-floppy diskette system.

II. PROGRAM EXECUTION

A. To run HECWRC from the hard disk do the following commands:

- * Go to the directory in which your data are stored (e.g. \HECWRC).
- * Type HECWRC then press the <ENTER> key.

The program then will prompt you for input filename, output filename, etc.

B. To run HECWRC from a floppy diskette do the following commands:

- * Place the diskette containing the HECWRC program on it in drive A
- * Type A:HECWRC then press the <ENTER> key.

The program then will prompt you for input filename, output filename, etc.

III. PROGRAM VERIFICATION

Using the above example, you can execute the HECWRC program by using the example data file provided to you. At this point you should compare your output file (HECWRC.ANS, for example) with the one provided to you (HECWRC.OUT). Comparing the two output files can be accomplished by using the DOS compare command (COMP). Check your results to insure that they are the same, except for execution date and time and output filename, as what we provided to you. This will insure that the program is working correctly on your computer system.

IV. PROGRAM PROBLEMS

If any errors are encountered which indicate potential problems in this HECWRC package, please contact the HEC.

U.S. Army Corps of Engineers
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